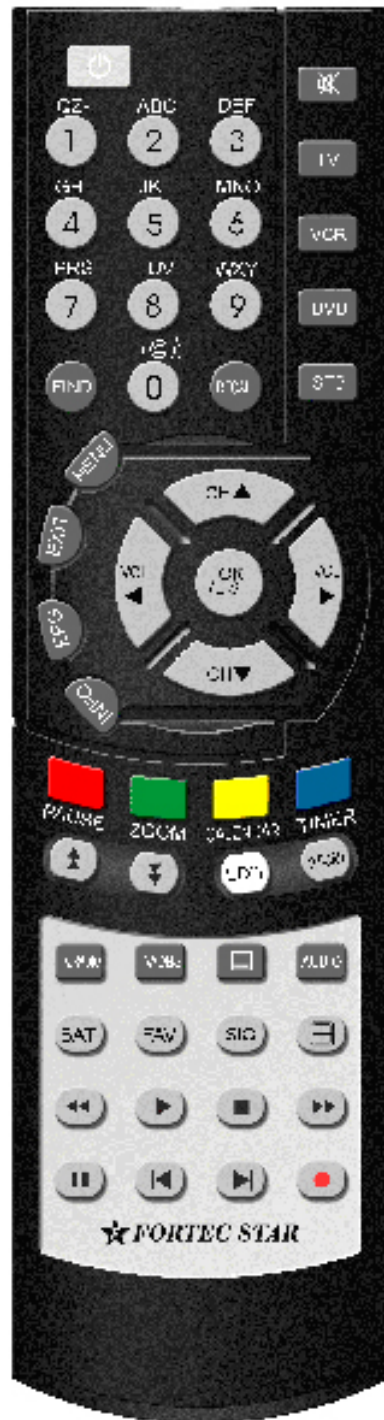


# Universal Remote Control

## USER'S MANUAL

4-in-1 Remote: Mercury-II



## ■ General Description

The **Mercury II** universal remote supports a total of 47 regular transmitting keys. Page Up/Down keys are counted as 2 keys. The **POWER** key is backlit with an LED key, which gives visual feedback to the user and provides a means to access the programming features of the remote. In addition, there are 4 device keys (TV, VCR, DVD and STB). The remote is primarily used for controlling the Fortec Star Mercury II FTA receiver, but it can also control most of the popular brands of TVs, VCRs, DVDs, and STBs being used in North America as per the codes listed on the code list at the end of this document.

Due to the growing number of device models available, this remote may not work for all models.

## ■ Basic Remote Operation

The LED backlit **POWER** key, located at the top left remote control indicates transmission of an IR signal has occurred. In addition, the LED key provides feedback when the remote is in a programming mode and as a key to be pressed to enter the various programming modes.

This remote communicates using Infrared (IR) Transmission. IR transmission is accomplished with an IR LED on the top end of the unit.

## ■ Battery Installation

Two AAA batteries power the remote, which are included with the remote.

After installing the batteries, the LED in the power button will flash when any key is pressed.

## ■ Programming Your Remote Control

There are three (3) ways to program your remote control:

- 1) Manual Programming
- 2) Code Search Programming
- 3) Auto Scan Programming

### 1. Manual Programming

To program your **Mercury II** 4-in-1 remote control manually, follow the steps below:

- a. Turn on the device to be operated (TV, VCR, DVD, or STB).
- b. Press and hold both the corresponding device key (TV, VCR, DVD, or STB) and the **OK** key at the same time for about 3 seconds until the LED stays on.
- c. While the LED is on, point the remote at your device and enter the three-digit code number from the brand list one after another using the numeric keys on the remote until your device (TV, VCR, DVD or STB) turns off.
- d. If your device turns off, press and release the **POWER** key on the remote one more time to ensure your device responds to the remote.

- e. Then, press and release the device key (TV, VCR, DVD or STB) again. The LED lamp will blink three (3) times. This will indicate the remote is correctly set for that device. It will also take the remote out of the programming mode.
- f. Test the other buttons (especially numeric keys) to see if the remote operates all the functions of your device. If it does, you're finished. If it does not, repeat steps a. – e. until you find the correct code for your device.

*\*Note:*

*During programming, if no key is pressed within 20 seconds of the previous keystrokes, the remote will exit the programming mode.*

## 2. Code Search Programming

To program your remote using Code Search Programming, follow the steps below:

- a. Turn on the device to be operated (TV, VCR, DVD, or STB).
- b. Press and hold the device key to be operated (TV, VCR, DVD, or STB) and the **OK** key at the same time and hold both for about 3 seconds until the LED stays on.
- c. Point the remote at your device, then press and release the **CH+** [or **CH-**] key to increase [or decrease] the code number by one digit. Continue pressing and releasing the **CH+** [or **CH-**] key until the equipment turns off. You may need to do this for several minutes while the remote searches for the correct code.
- d. When the device turns off, press and release the **POWER** button to ensure your device responds to the remote.
- e. Then, press and release the device key (TV, VCR, DVD or STB) one more time. The LED will blink three (3) times. This will indicate the remote is correctly set for that device. It will also take the remote out of the programming mode.
- g. Test the other buttons (especially numeric keys) to see if the remote operates all of the functions of your device. If it does, you're finished. If it does not, repeats steps a. – e. until you find the correct code for your device.

*\*Note:*

*During programming, if no key is pressed within 20 seconds of the previous keystrokes, the remote will exit the programming mode.*

## 3. Auto Scan Programming

To program your remote using Auto Scan Programming, follow the steps below:

- a. Turn on your device (TV, VCR, DVD, or STB).
- b. Press and hold the device key to be operated (TV, VCR, DVD, or STB) and the **OK** key at the same time and hold for about 3 seconds until the LED stays on.
- c. Point the remote at your device, then press and release the **PLAY** button. The remote will start to scan the codes one by one. Wait until your device turns off. You may need to wait for several minutes until the remote finds the correct code. [If the remote completely scans all the codes for the corresponding device, the LED will stay on.

- d. When the device turns off, press and release the **STOP** button to stop scanning for the code. Then press and release the **POWER** button to ensure your device responds to the remote.
- e. Then, press and release the device key (TV, VCR, DVD or STB) one more time. The LED will blink three (3) times. This will indicate the remote is correctly set for that device. It will also take the remote out of the programming mode.
- f. Test the other buttons (especially numeric keys) to see if the remote operates all of the functions of your device. If it does, you're finished. If it does not, repeats steps a. – e. until you find the correct code for your device.

*\*Note:*

*During programming, if no key is pressed within 20 seconds of the previous keystrokes, the remote will exit the programming mode.*

## ■ Reading the Setup Code

If you forget which code your equipment used, or if you want to know which code the remote found during the Code Search Programming, you can read the code by the following steps:

- a. Press and hold the corresponding device key (TV, VCR, DVD, or STB) and the **OK** key at the same time for about 3 seconds until the LED stays on.
- b. Press and release the **INFO** key.
- c. Press the numeric key **1** and count the number of blinks of the red LED. This number represents the 1<sup>st</sup> digit of the 3 digit code
- d. Press numeric key **2** and count the number of blinks of the red LED. This number represents the 2<sup>nd</sup> digit of the 3-digit code.
- e. Press numeric key **3** and count the number of blinks of the red LED. This number represents the 3<sup>rd</sup> digit of the 3-digit code.
- f. Press the corresponding device key to get out of the Reading Setup Code mode. The red LED will turn off indicating you are out of the Reading Setup Code mode.

*\*Note: If the corresponding number is zero (0), the red LED will blink for a very short time.*

*Ex) If the corresponding code number is "032", the LED blink back will be as follows;*

<u>Key pressed</u>	<u>LED Blinks</u>
Digit "1"	1 blink for very short time [50mS]
Digit "2"	3 times
Digit "3"	2 times

## ■ Sleep Mode

If any one of the keys are pressed and held for longer than 60 seconds continuously, the remote will stop transmitting the IR signal and enter the sleep mode. This is to protect the batteries and the IR circuit.

## Device code list by brand:

<b>TV</b>	
A MARK	003
ABEX	032
ABMIRAL	093
ADVENTURA	046
AIKO	092
AKAI	030
ALARON	179
AMBASSADOR	177
ANAM	180
ANAM NATIONAL	055
AOC	003 019 030 051 052 185
ARCHER	003
AUDIOVOX	003 092 180 452 623
BAYSONIC	180
BELCOR	019
BELL&HOWELL	016 154
BRADFORD	180
BROCKWOOD	019
BROKSONIC	003 236 463
CANDLE	030 046 056 186
CARNIVALE	030
CARVER	054
CELEBRITY	015
CINERAL	092 452
CITIZEN	030 039 046 056 060 092 186 280
CLAIRTONE	185
CONCERTO	056
CONTEC	180 185
CRAIG	180
CROSLEY	054
CROWN	039 180
CURTIS	030
CURTIS MATHER	039 051 016 047 054 056 060 093 145 154 166 452 466
CXC	180
DAEWOO	039 092 452 623 624 019
DAYTRON	019
DENON	145
DUMONT	017 019
DWIN	720 774
ELECTROBAND	015 185
EMERSON	019 038 039 154 177 178 179 180 185 236 280 282 463 623 624
ENVISION	030
FISHER	154 159
FUJITSU	179
FUNAI	171 179 180
FUTURETECH	180
GE	027 047 051 055 093 178

	282 452
GIBRALTER	017 019 030
LG (GOLD STAR)	001 019 030 032 056 178
GRADIENTE	053 056
GRUNPY	179 180
HALLMARK	178
HARLEY DEVIDSON	179
HARMAN/KARDON	054
HARVARD	180
HILCO	019
HITACHI	038 056 145 151 032
INFINITY	054
INTEQ	017
JANEIL	046
JBL	054
JCB	016
JVC	053
KAYPANI	052
KEC	180
KENWOOD	019 030
KLOSS	024 046
KTV	030 039 180 185 280
LG	056
LOGIK	016
LUXMAN	056
LXI	047 054 154 156 178
MAGNAVOX	021 024 030 054 096 179 186 187 386
MAJESTIC	016
MARANTZ	030 054
MATHES	030
MATSUSHITA	250
MEGATRON	003 145 178
MEI	185
MEMOREX	016 056 150 154 178 250
MGA	019 030 150 178
MIDLAND	017 032 039 047 051
MITSUBUSHI	019 093 150 178
MOTOROLA	055 093
MTC	030 056 060 185
MULTITECH	180
NAD	156 166 178
NEC	019 030 056 497
NIKKO	092 178
NOSHI	018
NTC	092
ONWA	180
OPTIMUS	154 166 250
OPTONICA	165
ORION	179 236 463
PANASONIC	051 055 250
PENNEY	003 018 019 027 030 032

	039 047 051 056 060 156 178
PHILCO	021 030 054 096 145 463
PHILIPS	054
PILOT	019 030 039
PIONEER	038 166
PORTLAND	019 039 092
PRISM	051
PROSCAN	047
PROTON	003 052 178 466
PULSAR	017 019
QUASAR	051 055 165 250
RADIO SHACK	030 032 039 047 056 154 165 178 180
RCA	018 038 047 051 090 093
RCARADIO	019
REALISTIC	019 032 039 056 154 165 178 180
REALISTUC	030
RHAPSODY	185
RUNCO	017 030 497
SAMPO	030 032 039 052
SAMSUNG	019 030 032 056 060 178
SAMSUX	039
SANSEI	452
SANSUI	463
SANYO	144 146 149 154 159
SCIMITSU	019
SCOTCH	178
SCOTT	019 178 179 180 236
SEARS	047 054 056 146 154 156 159 171 178 179
SEMIVOX	180
SEMP	156
SHACK	019
SHARP	039 093 165 386
SHOGUN	019
SIMPSON	186 187
SONY	014 015 022
SOUNDESIGN	178 179 180 186
SPECTRICON	003
SQUAREVIEW	171
SSS	019 180
STARLITE	180
SUGNATURE	016
SUPER-MACY	046
SUPREME	015
SYLVANIA	021 030 054 096
SYMPHONIC	171
TANDY	093
TATUNG	003 055
TECHNICS	051 250
TECHNOL ACE	179
TECHWOOD	003 051 056
TEKNIKA	016 019 039 054 056 060 092 150 179 180 186
TELEFUNKEN	056

TMK	056 177 178
TOSHIBA	060 154 156
TOSONIC	185
TOTEVISION	039
UNIVERSAL	027
VECTOR RESEARCH	030
VICTOR	053
VIDIKRON	054
VIDTECH	019 178
VIKING	046
WARDS	016 019 021 027 030 054 056 096 165 178 179
WHITE WESTINGHOUSE	623 624
YAMAHA	019 030
ZENITH	016 017 092
ZONDA	003

<b>VCR</b>	
ADMIRAL	048
ADVENTURA	001
AIKO	278
AIWA	001 010 037 307
AKAI	041 061 106
AMERICAN HIGH	035
ASHA	240
AUDIOVOX	037
BEAUMARK	240
BELL&HOWELL	104
BROKSONIC	002 121 184 209 479
CALIX	037
CANON	035
CAPEHART	020
CARVER	081
CCE	072 278
CINERAL	278
CITIZEN	037 278
COLT	072
CRAIG	037 047 072 240 271
CURTIS MATHES	035 041 060 162
CYBERNEX	240
DAEWOO	020 045 278 561
DAYTRON	020
DENON	042
DYNATECH	001 010
ELECTROHOME	037
ELECTRPHONIC	037
EMEREX	032
EMERSON	001 002 010 037 043 061 121 184 208 209 212 278 479 561
EVIDSON	001
FISHER	047 054 066 104
FUJI	033 035
FUNAI	001

GARRARD	001 010
GE	035 048 060 202 240
GO VIDEO	526
LG(GOLD STAR)	037 038
GRADIENTE	001
HARLEY DAVIDSON	001 010
HARMAN	038
HARMAN/KARDON	081
HARWOOD	072
HEADQUARTER	046
HI-Q	047
HITACH	001 010 041 042 105
HQ	010
JENSEN	041
JVC	008 041 067
KARDON	038
KEC	037 278
KENWOOD	038 041 067
KLH	072
KODAK	035 037
LLOYD'S	001 010 208
LOGIK	072
LXI	037 010
MAGNASONIC	278
MAGNAVOX	001 010 035 039 081 149
MAGNIN	240
MARANTZ	035 081
MARTA	037
MATSUSHITA	035 162
MEI	035
MEMOREX	001 010 035 037 039 046 047 048 104 162 240 307
MGA	043 061 240
MGN TECHNOLOGY	240
MINOLTA	042 105
MITSUBUSHI	043 048 061 067
MOTOROLA	035 048
MTC	001 010 240
MULTITECH	001 010 072
NEC	038 041 067 104
NIKKO	037
NIKON	034
NOBLEX	240
OENNEY	037
OLYMPUS	035
OPONICA	062 037 048 104 162
ORION	002 184 479
PANASONIC	035 077 162 225
PENNEY	035 038 042 054 240
PENTAX	042 105
PHILCO	010 035 209 479
PHILIPS	010 035 062 081
PILOT	037
PIONEER	067
PORTLAND	020
PROFITRONIC	240

PROSCAN	060 202
PROTEC	072
PULSAR	039
QUARTER	046
QUARTZ	046
QUASAR	035 077 162
RADIO SHACK	001 010
RADIX	037
RCA	010 035 042 048 060 077 105 106 149 202 240
REALISTIC	001 010 035 037 046 047 048 062 066 104
RICOH	034
RINAI	010
RUNCO	039
SAMSUNG	045 240
SANKY	039 048
SANSUI	010 041 067 271 479
SANYO	046 047 104 240
SCOTT	043 045 121 184 212
SEARS	035 037 042 046 047 054 066 104 105
SEMP	043 045
SHARP	048 062
SHINTOM	072
SHOGUN	240
SINGER	072
SONY	010 032 033 034 035
STS	042
SYLVANIA	010 035 081
SYMPHONIC	001 010
TATUNG	041
TANDY	010
TEAC	001 010 041
TECHNICS	035 162
TEKNIKA	010 035 037
THOMAS	010
TMK	208 240
TOSHIBA	043 045 066 212
TOTEVISION	037 240
UNITECH	240
VECTOR	043 045
VECTOR RESEARCH	038
VIDEO CONCEPTS	010 043 061 045
VIDEOSONIC	240
WARDS	010 035 042 047 048 060 062 072 081 149 212 240
WHITE WESTINGHOUSE	278
XR-1000	001 035 072
YAMAHA	010 038
ZENITH	010 033 034 039

<b>DVD</b>	
AIWA	002

ALPINE	021
APEX DIGITAL	051 046
ARCAM	015
CYBERHOME	020
DAEWOO	020
DENON	026 041
FUNAI	008
GE	030 031
LG(GOLD STAR)	035 039
GO VIDEO	001
HARMAN KARDON	043
HITACHI	023
HITEKER	046
JVC	038
KENWOOD	016
KLH	010
LG	035 039
MAGNAVOX	054 037
MARANTZ	053 042
MCINTOSH	017
MEMOREX	007
MITSUBISHI	027
MYRYAD	024
NAD	047 039
NAKAMICHI	025
ONKYO	040
PANASONIC	028 006 026
PHILIPS	053 037 014 042
PIONEER	022
PROCEED	045
PROSCAN	030 031
RCA	030 031
SAMSUNG	036 048 001
SANSUI	005
SANYO	004
SHARP	052
SONY	032 018 003
SYLVANIA	008
SYMPHONIC	008
TATUNG	024
TECHINICS	028
TOSHIBA	033 044 019 005
VENTURER	009
YAMAHA	026
ZENITH	039 026 035 039

STB	
ALPHASTAR DSR	122 142
CHAPARRAL	080
CITOH	060
DRAKE	113
DZ445UR	001
DW445UR	002
DX ANTENNA	031 052 062 079
ECHOSTAR	064 095 097
FUJITSU	034
GENERAL INSTRUMENT	065 103
HUGHES	072 137
JANIEL	066
KATHREIN	110
MACOM	065 069 070 071
NEXTWAVE	123 124
NORSAT	073 074
PANASONIC	066
PANSAT	120
PERSONAL CABLE	118
PHILIPS	075
PICO	107
PRESIDENT	104
PRIMESTAR	112
RCA	108 136 139
REALISTIC	049
SAMSUNG	122 142
SATELLITE SERVICE CO	035 053 088
SCIENTIFIC ATLANTA	039
SONY	105 138
STARCAST	047
SUPER GUIDE	123 124
TEECOM	033 078 090 091 093 109
TOSHIBA	126 143
UNIDEN	032 048 049 050 051 054 055 081 082 083 089 103
ZENITH	084 085 086 087 094 119